REPORT DOCUMENTATION PAGE

Public reporting burden for this collection of information is estimated to average 1 hour per response, incl
gathering and maintaining the data needed, and completing and reviewing the activation of response, incl

ources,

gathering and maintaining the data needed, and comp collection of information, including suggestions for re Davis Highway, Suite 1204, Arlington, VA 22202-43	pleting and reviewing the collection ducing this burden, to Washingon 102, and to the Office of Manaramer	of information. : Headquarters Ser nt and Budget, Pa	7) F7)	
1. AGENCY USE ONLY (Leave blank)		3. REI		
	21 Feb 02	Final Rep		
4. TITLE AND SUBTITLE		E TOVIC	5. FUNDING NUMBERS F49620-98-1-0369	
AASERT-98 RESEARCH TRAININ	G OF THE EFFECTS O	r IOAIC	149020-98-1-0309	
SUBSTANCES ON THE LUNGS			3484/TS	
6. AUTHOR(S)			3.6.7.15	
Dr Mark L. Witten			61103D	
			8. PERFORMING ORGANIZATION	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) University of Arizona College of Medicine			REPORT NUMBER	
Dept of Pediatrics	dicine		4 4 4 1	
1501 N. Campbell Avenue				
Tucson, AZ 85724-0001				
1 ucson, AZ us/24-0001				
9. SPONSORING/MONITORING AGENC	Y NAME(S) AND ADDRESS	S(ES)	10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
AFOSR/NL	•		AGENOT REPORT NOMBER	
801 N Randolph Street				
Arlington VA 22203-1977		AIN. DE OF OFFICE OF ON PAIRWE	LO DECEMBOLI (MEOCE)	
		AIRTHURAS OFFICE OF SCIENTIF	и казалин (колону пистаетин — С. С. ОСТ	
11. SUPPLEMENTARY NOTES		HAS BEEN REVIEWED AND 15 AP		
		LAW AFR 190-12. DISTRIBUTION		
		LAW ACT. 180-12. DIGITAISUTION	A 19 Olarmia mp.	
12a. DISTRIBUTION AVAILABILITY STA	TEMENT		12b. DISTRIBUTION CODE	
Dic France.				
DISTRIBUTION STATEMENT A Approved for Public Park				
Approved for Public Release Distribution Unlimited 13. ABSTRACT (Maximum 200 words)				
DISTribution Unlimited 13. ABSTRACT (Maximum 200 words)				
The Joan B. and Donald R. Diamond Lung Injury Laboratory at the University of Arizona College of Medicine has had a				
relatively long history with the U.S. Department of Defense AASERT grant program that began in the early 1990's. There				
were two University of Arizona graduate students, Allison Hays and Juanita Hyde, sponsored by my AASERT grant in its				
final year. Allison Hays is in the doctoral program of the Department of Cell Biology & Anatomy in the UA College of				
Medicine. Since the AASERT program has ended, Ms Hays is currently receiving financial support from the Department of				
Cell Biology & Anatomy. She is preparing for her oral examinations having passed her written doctoral examinations earlier				
this year. She expects to have her doctoral degree completed by May of 2002. The Other student supported by the AASERT				
program in its final year was Juanita Hyde. Juanita graduated with a Bachelor of Science degree from the University of				
Arizona in May of 2001. I have now exployed Juanita as a full-time research technician in my laboratory and she is				
continuing to take graduate courses working towards a Master's degree in Industrial Hygiene.				
		946 A76	·	
14. SUBJECT TERMS	一 つかかつか	315 075	15. NUMBER OF PAGES	
	ていってっ	AIN AIN		

20. LIMITATION OF ABSTRACT 18. SECURITY CLASSIFICATION | 19. SECURITY CLASSIFICATION 17. SECURITY CLASSIFICATION **OF ABSTRACT** OF THIS PAGE OF REPORT

16. PRICE CODE

Kozumbo Walter Civ AFRL/AFOSR

From: Mark Witten [mwitten@peds.arizona.edu]

Sent: Wednesday, September 05, 2001 3:32 PM

To: walter.kozumbo@afosr.af.mil Subject: RE: AASERT Annual Report

DEPARTMENT OF DEFENSE AASERT GRANT, "RESEARCH TRAINING OF THE EFFECTS OF TOXIC SUBSTANCES ON THE LUNGS"

Progress Report from July 1, 2000 to June 30, 2001

Mark L. Witten, Ph.D.

Research Professor & Principal Investigator
Department of Pediatrics
University of Arizona College of Medicine
1501 N. Campbell Avenue
Tucson, Arizona 85724-0001

Report Submitted to Dr. Walter J. Kozumbo, Program Manager
Chemistry & Life Sciences Directorate
AFOSR-NL and AASERT Office
801 North Randolph Street
Room 732
Arlington, Virginia 22203-1977

Background

The Joan B. and Donald R. Diamond Lung Injury Laboratory at the University of Arizona College of Medicine has had a relatively long history with the U.S. Department of Defense AASERT grant program that began in the early 1990's. There were two University of Arizona graduate students, Allison Hays and Juanita Hyde, sponsored by my AASERT grant in its final year. Allison Hays is in the doctoral program of the Department of Cell Biology & Anatomy in the UA College of Medicine. Since the AASERT program has ended, Ms. Hays is currently receiving financial support from the Department of Cell Biology & Anatomy. She is preparing for her oral examinations having passed her written doctoral examinations earlier this year. She expects to have her doctoral degree completed by May of

2002. The other student supported by the AASERT program in its final year was Juanita Hyde. Juanita graduated with a Bachelor of Science degree from the University of Arizona in May of 2001. I have now employed Juanita as a full-time research technician in my laboratory and she is continuing to take graduate courses working towards a Master's degree in Industrial Hygiene.

Progress in the Past Year

Both students are presently conducting research efforts associated with our AFOSR grant entitled, "The Role of Substance P in a Model of Chronic JP-8 Jet Fuel Exposure". Ms. Hays is continuing work on her unique dynamic lung slice culture system that utilizes intact lung slices exposed to various concentrations of JP-8 jet fuel. This novel cell culture system allows us to determine the response(s) of all 40 cell types in the lungs to JP-8 jet fuel exposure. Juanita Hyde has undertaken the management of our JP-8 jet fuel lung proteomics research. She presented her initial project at the Experimental Biology 2001 meeting this past April in Orlando, Florida.

Research Publications

- (1) Hays AM, Wijeweera J, Lantz RC, Witten M: The effects of JP-8 jet fuel on ATP concentration in agar-filled precision cut rat lung slices in invitro culture. TOXICOLOGIC PATHOLOGY (in press).
- (2) Hyde J, Witzmann F, Lee R, Witten ML: Analysis of lung proteomic changes after exposure to JP-8 jet fuel. THE FASEB JOURNAL, 2001, 15:A485.